LEGEN'KOV, A.P.

Motion of a long wave in an infinitely long flat channel of
variable depth. Probl. Arkt. no.2:73-83 '57.   (MIRA 11:12)
                        (Hydrodynamics)

LESEN'KOV, A. P.

P. 2

PHASE I BOOK EXPLOITATION   SOV/4085

Leningrad. Arkticheskiy i Antarkticheskiy nauchno-issledovatel'skiy institut

Problemy Arktiki; sbornik statey, vyp. 5 (Problems of the Arctic; Collection of Articles, No. 5) Leningrad, Izd-vo "Morskoy transport," 1958. 139 p. 500 copies printed. XEROX COPY

Additional Sponsoring Agency: USSR. Ministerstvo morskogo flota. Glavnoye upravleniye severnogo morskogo puti.

Resp. Ed.: V.V. Frolov; Editorial Board: L.L. Balakshin, M.I. Belov, Ya. Ya. Gakkel', A.A. Girs, P. A. Gordiyenko, L.G. Kaplinskaya, A.F. Laktionov, A.P. Nikol'skiy, A.Ya. Sukhorukov, and A.F. Treshnikov (Deputy Resp. Ed.); Tech. Ed.: L.P. Drozhzhina.

PURPOSE: The publication is intended for geographers, oceanographers, and readers interested in the study of the Arctic and Antarctic regions.

COVERAGE: This collection of 19 articles published by the Arctic and Antarctic Institute deals with phenomena on the Arctic ice sheet, the effect of western

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. Problems of the Arctic, Collection of Articles, No. 5   SOV/4085

atmospheric circulation on air conditions in the Arctic . methods of photometric
processing of aerial photographs in determining the depth of reservoirs, mag-
netic observations and processes occurring on islands in Soviet Arctic waters.
Brief information on the results of Soviet Arctic and Antarctic expeditions is
included. References follow the articles.

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Problems of the Arctic; Collection of Articles   SOV/4085

Zakharov, V.F. Walrus Rookery on the Vilkitskiy Island   132

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Maksimov, V.I. Second Antarctic Expedition of the Academy of Sciences
USSR   133

Baskakov, G.A., and N.F. Kudryavtsev. Expedition for the Purpose of
Investigating Currents in the Kara Sea During the 1957 Navigation Period   137

Denisov, A.S. Oceanographic Expedition on the Ship "Toros"   139

AVAILABLE: Library of Congress

JA/rn/gmp
9-7-60

Card 5/5

SOV/49-58-8-5/17

AUTHOR: Legen'kov, A.P.

TITLE: Plane Free Oscillations of an Ideal Homogeneous Liquid in an
            Infinite Canal of Variable Cross-section (Ploskiye svobo-
            dnyye kolebaniya ideal'noy odnorodnoy zhidkosti v beskon-
            echnom kanale peremennogo secheniya)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya,
            1958, Nr 8, pp 989 - 994 (USSR)

ABSTRACT: This problem has been studied by Green (Ref 1), Lamb
            (Ref 2), Taylor (Ref 3) and Thorade (Ref 4).   Green
            assumed that   the cross-section changed
            only by a small fraction in a wavelength. In Lamb's and
            Taylor's formulations, the change of cross-section could
            take place over any distance but the section itself tended
            to zero. Thorade considered a similar problem but with an
            infinite canal. However, he neglected reflections of the
            oscillations which considerably reduces the value of his
            work.
            The author considers the oscillations of a liquid in an
            infinite canal not subject to the limitations of Green and
            Thorade. The basic equations are taken to be:

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Plane Free Oscillations of an Ideal Homogeneous Liquid in an Infinite
Canal of Variable Cross-section

$$\frac{\partial u}{\partial t} = - g \frac{\partial \eta}{\partial x} \quad ,$$

$$\frac{1}{b} \frac{\partial}{\partial x} (Su) = - \frac{\partial \eta}{\partial t} \qquad (1)$$

where u is the velocity of horizontal motion of the
liquid; t is the time; g is the acceleration due to
gravity; η is the deviation from the undisturbed surface;
b is the width of the canal at the surface and S is
the cross-sectional area of the canal. Assuming a sine
wave oscillation gives Eq.(2)..
The oscillations are supposed to be propagated in the direc-
tion in which the cross-section diminishes. Then the
progressive waves can be written in the form:

Card2/7 $\eta^{+} = \eta_{o} \sin \sigma (t - x/c_{o})$

Plane Free Oscillations of an Ideal Homogeneous Liquid in an
Infinite Canal of Variable Cross-section

where $c_0 = \sqrt{p_0 g}$ is the velocity of propagation of the
wave and p_0 is the depth. Between two different sections,
a wave with variable amplitude and velocity is propagated;
as in Eq.(3) (where $\bar{\eta}$ and $\bar{u}$ are the amplitude and
maximum, horizontal velocity of the liquid at the given
point, β and γ are non-linear functions denoting the
change in phase between the given point and the origin.
Eqs. (3) are written as sums of sines and cosines (4).
Eq.(7) is obtained from the continuity condition. Three
main problems are now considered.
a) The width changes along a straight line while the depth
remains constant. Let $b = b_0 - 2x \tan \varphi$ and the depth

p be constant (Figure 1). Eliminating x in (2) and

substituting $k = \pi b / \sqrt{pq} \, T \tan \varphi$ gives:

$$\eta = c_1 J_0(k) + c_2 Y_0(k) \; .$$

Substituting values for c_1 and c_2 obtained from

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Plane Free Oscillations of an Ideal Homogeneous Liquid in an
Infinite Canal of Variable Cross-section

Eqs.(7) and (8) gives two equations for η and u in
terms of $J_0(k)$ and $Y_0(k)$. Next, their dependence on
a/λ and b/b_0 is considered (where a is the variable
length of the canal). Suppose $k \ll 1$, then using
Eqs.(3) - (6) and expressions for Bessel functions of
small argument, we get Eq.(9). Certain relations between
the incident, transmitted and reflected waves (Ref 2,
pp 330-331) can now be written down:

$$\frac{\eta_2}{\eta_1} \approx \frac{b_1 - b_0}{b_1 + b_0} \, , \quad \frac{\eta_0}{\eta_1} \approx \frac{2b_1}{b_1 + b_0}$$

where η_0, η_1, η_2 are the amplitudes of the transmitted,
incident and reflected waves in the constant parts of the
canal. Thus, for small k , the wave reflections take place
approximately according to Young's Law; as was first

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Plane Free Oscillations of an Ideal Homogeneous Liquid in an
Infinite Canal of Variable Cross-section

shown by Rayleigh (Ref 5). When a/λ and b_1/b_0 are,
on the other hand, such that the expressions for Bessel
functions of large argument can be used, Green's formula is
obtained. In the third case, when a/λ and b_1/b_0 , and
hence, k , have intermediate values, calculations must be
made with the aid of tables (Ref 6). The author gives the
results of such calculations for a/λ = 0.02, 0.1, 0.5
and 1 with b_1/bo = 2n + 1 (Table 1). Eq.(9) is already
satisfied for a/λ = 0.02. The velocity of propagation
of the surface oscillations and the horizontal oscillations
of the liquid are seen to be unequal.
b) The depth changes linearly and the width is constant.
Let $p = p_0 - x\tan\alpha$ and b = constant (Figure 2).
Eliminating x from Eq.(2) and substituting:

$$k = \frac{2\sigma\sqrt{p}}{\sqrt{g}\ tg\ \alpha}$$

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SOV/49-58-8-5/17

Plane Free Oscillations of an Ideal Homogeneous Liquid in an
Infinite Canal of Variable Cross-section

we obtain $\eta = C_1 J_0(k) + C_2 Y_0(k)$ and detailed expressions
for η and u are obtained as before. When $k \ll 1$,
Eq.(10) results. For $k = 0$, the reflection follows
Young's Law and for large k , Green's formula holds.
Values of a/λ_1 equal to 0.02, 0.1, 0.5 and 1 and
$P_0/P_1 = 0.1$ produce the results in Table 2. The table
shows that Eqs.(10) hold if $a/\lambda_1 \leqslant 0.02$.

c) Width and depth change linearly.
Let $b = b_0 - 2x \tan \varphi$, $p = p_0 - x \tan \alpha$ and the straight
lines meet at a point in the liquid surface. Consequently,
$S' = pb$, $p/p_0 = b/b_0$. Eliminating x from Eq.(2) and
substituting $p = \dfrac{p_0}{b_0} b$ and :

$$k = \frac{\sigma \sqrt{b_0 b}}{\sqrt{p_0 g} \tan \varphi}$$

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Plane Free Oscillations of an Ideal Homogeneous Liquid in an
Infinite Canal of Variable Cross-section

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we get:

$$\eta = \frac{1}{k}\left[C_1 J_1(k) + C_2 Y_1(k)\right].$$

Determining C_1 and C_2 as in the previous examples
gives equations for η and u. For large values of k,
Green's formula is again recovered.
There are 2 figures, 2 tables and 6 references, 2 of which
are English, 1 German and 3 Soviet (two being translations
from English and 1 from German).

ASSOCIATION: Arkticheskiy nauchno-issledovatel'skiy institut
                (Arctic Scientific Research Institute)

SUBMITTED: March 31, 1958

Card 7/7   1. Liquids--Oscillation

SOV/49-59-11-26/28

AUTHOR: Legen'kov, A. P.

TITLE: Reflection of Plane Free Waves of an Ideal Homogeneous Liquid in an Infinite Channel with Variable Cross-Section

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geofizicheskaya 1959, Nr 11, pp 1717-1720 (USSR)

ABSTRACT: The channel is illustrated schematically in Fig 1 and has a constant depth. The wave propagated to the right of $m_0 n_0$ (Fig 1) is given by Eq (1), where η is the displacement of the surface, σ is the frequency and c_0 is the velocity of propagation. The wave propagated between $m_1 n_1$ and $m_0 n_0$ is given by Eq (2), where C_1 and C_2 are constants, k is given by

$$k = \frac{2\pi}{b_1/b_0 - 1} \cdot \frac{b}{b_0} \cdot \frac{a}{\lambda}$$

b is the variable width in the region a, a the length of this region, b_1 is the width of the left-hand part of the channel (Fig 1), b_0 is the width of the right-hand part of the channel, and λ is the wavelength at the ends of the channel. Since the gradients across the boundary $m_0 n_0$ are the same, the coefficients C_1 and C_2 can be

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$\checkmark$

SOV/49-59-11-26/28

Reflection of Plane Free Waves of an Ideal Homogeneous Liquid in an Infinite Channel with Variable Cross-Section

determined. It is found that the ratio of the amplitude of the reflected wave to that of the incident wave is given by Eq (5). This formula holds for small k. It is shown that under certain conditions, eg $a/\lambda = 0.3$, the amplitude of the reflected wave may exceed the amplitude of the incident wave and the phases of the two waves may differ by 180°. Moreover, at constant a/λ the reflection is greater as b_1/b_0 increases. At constant b_1/b_0 the reflection at first increases with increasing a/λ and then falls off to zero. The second part of the paper treats the case shown in Fig 2 in which the depth of the channel is variable but the width is constant. It is shown that under certain conditions, eg $a/\lambda_1 = 0.3$, where λ_1 is the wavelength in that part of the channel in which the depth is p_1, the phase of the reflected wave may differ from that of the incident wave by 180° and the amplitude of the former may exceed the amplitude of the latter. At constant a/λ_1 and when the phases of the two waves are

Card 2/3   the same, the reflection increases with decreasing p_0/p_1

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Reflection of Plane Free Waves of an Ideal Homogeneous Liquid in an Infinite Channel with Variable Cross-Section

(Fig 2) and in the opposite case it decreases. The final section of the paper is concerned with reflected waves in the general case, i.e. when both the width and the depth are variable. The results obtained are summarized in Tables 1-3. Table 1 gives the ratio of amplitudes of the reflected and incident waves as a function of the width of the channel (constant depth, variable width; Fig 1), Table 2 gives this ratio as a function of channel depth; Fig 2, and Table 3 gives the ratio as a function of the width and the depth of the channel. There are 2 figures, 3 tables and 2 Soviet references (one a translation from English).

ASSOCIATION: Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut (Arctic and Antarctic Scientific Research Institute)

SUBMITTED: October 28, 1958

Card 3/3

LEGEN'KOV, A.P.

NOTES

Total Area and Number of Islands of Franz-Josef Land

The Problem of Observation of Tidal Changes in Ice Concentration

Methods of Measuring Surface Currents by Observing the Drift of Free-Floating Devices

Method of Processing Oceanographic Observations

Finding of Bottle Mail on Voronin Island

Radar Investigations of Auroras on Frequencies of 73 and 50 Megacycles Simultaneously

INFORMATION

The Voyages of the Oceanographic Expedition to the Greenland Sea in 1959

High-Latitude Aerial Expedition of 1959

AVAILABLE: Library of Congress

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LEGEN'KOV, A.P.

Sverdrup waves. Izv. AN SSSR. Ser. geofiz. no.3:434-437
Mr '62.
(MIRA 15:2)

1. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy
institut.

(Waves)

LEGEN'KOV, A.P.

Concerning K.T.Bogdanov and B.A.Taraev's article "Classification
of tides and tidal currents." Izv. AN SSSR. Ser.geofiz. no.2:
381-383 F '63.   (MIRA 16:3)

1. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut.
   (Tides--Classification) (Bogdanov, K.T.) (Taraev, B.A.)

LEGEN'KOV, A.P.

Coefficients of attenuation and rate of dispersion of Sverdrup
waves. Izv. AN SSSR. Ser. geofiz. no.6:985-987 Je '63.

1. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy
institut.

(MIRA 16:7)

(Waves)

LEGEN'KOV, A.P.

Reflection of Sverdrup waves from the ice edge. Izv. AN SSSR, Fiz. atm. i okeana 1 no.3:327-334 Mr '65.

(MIRA 18:5)

1. Arktichaskiy i Antarktichaskiy nauchno-issledovatel'skiy institut.

Legeny, Belane

Quick methods for determination of "total" nitrogen, phosphorus, and potassium in manures. János Sarkadi, István Perczel, Gyongyi Belea, Gyula Latorczai, and Béláné Legény (Agrokémiai Kutató Intézet Szervestrág-yazasi Osztálya, Budapest). *Agrokémia és Talajtan* 4, 71–80(1955)(German summary).—The samples of manure were broken down chemically, by using the modified Jodl-bauer method in the 1st batch, and H_2SO_4 and H_2O_2 in the 2nd batch. The N was detd. by the Kjeldahl method. The results obtained by the 2 different methods showed good agreement. The P_2O_5 was detd. colorimetrically; the phos-phomolybdate complex was reduced with metal. K_2O was detd. with the use of Schuhknecht-Waibel flame photom-eter.   Nella Hellinger

LEGENY, Laszlo, okleveles gepeszmernok

Avoiding cooling below dew point and smut formation in oil-fired
installations. Energia es atom 16 no.4:170-172 Ap '63.

1. Eromu Beruhazasi Vallalat.

29007
S/020/61/140/004/006/023
B104/B108

1103 1327

244200

AUTHOR: Legenya, I. D.

TITLE: Stability of a thick rectangular, freely resting plate under compression

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 140, no. 4, 1961, 776-779

TEXT: In this investigation the author makes use of the relations of the theory of small elastoplastic deformations. Following ideas of L. S. Leybenzon (Sobr. tr., 1, Izd. AN SSSR, 1951) and A. Yu. Ishlinskiy (Ukr. matem. zhurn., 6, no. 2 (1954)), a study of the loss of stability is deduced from general relations between stress and deformation. The plate (Fig. 1) is compressed by a homogeneous load in direction of the z-axis. Compressibility of the material is neglected. The relations of the theory of small elastoplastic deformations are given in the form

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Stability of a thick...

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$$\sigma_x - \sigma = \frac{2}{3}\frac{\sigma_i}{e_i}e_x, \ldots, \quad \tau_{xy} = \frac{1}{3}\frac{\sigma_i}{e_i}e_{xy}, \ldots,$$

$$\sigma_i = \Phi(e_i), \quad \sigma = \frac{1}{3}(\sigma_x + \sigma_y + \sigma_z),$$

$$\sigma_i = \frac{\sqrt{2}}{2}\sqrt{(\sigma_x - \sigma_y)^2 + (\sigma_y - \sigma_z)^2 + (\sigma_z - \sigma_x)^2 + 6(\tau_{xy}^2 + \tau_{xz}^2 + \tau_{yz}^2)},$$

$$e_i = \frac{\sqrt{3}}{2}\sqrt{(e_x - e_y)^2 + (e_y - e_z)^2 + (e_z - e_x)^2 + {}^3/_2(e_{xy}^2 + e_{xz}^2 + e_{yz}^2)},$$

where σ_{ij} are the components of stress, and e_{ij} those of deformation. The author tries to find solutions in the form $\sigma_{ij} = \sigma_{ij}^0 + \sigma_{ij}'$; $e_{ij} = e_{ij}^0 + e_{ij}'$; $u = u^0 + u'$; .... The superscript o indicates the unperturbed component, the prime indicates the perturbation. u is the displacement in the x-direction. By linearization of (1) the author obtains expressions for lateral bulgings of the plate. In a study of the boundary value problem of the lateral surfaces of the plate, a transcendental equation is obtained for the critical deformation;

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Stability of a thick...

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S/020/61/140/004/006/023
B104/B108

$$c_2^0 = \{\Upsilon\, (\sigma^2 + \lambda^2)\, [m^2\, (\sigma^2 - \Upsilon^2) - 2n^2\, (\sigma^2 + \Upsilon^2)]\, \text{th}\, (\lambda a) -$$
$$- \lambda\, (\sigma^2 - \Upsilon^2)\, [m^2\, (\sigma^2 + \lambda^2) - 2n^2\, (\sigma^2 - \lambda^2)]\, \text{tg}\, (\Upsilon a) +$$
$$+ 4n^2\sigma\Upsilon\lambda\, (\Upsilon^2 + \lambda^2)\, \text{th}\, (\sigma a)\} / 3m^4\, [\Upsilon\, (\sigma^2 + \lambda^2)\, \text{th}\, (\lambda a) - \lambda\, (\sigma^2 - \Upsilon^2)\, \text{tg}\, (\Upsilon a)]. \qquad (19)$$

where

$$\lambda = \tfrac{1}{2}\, \{- [(6 + k)\, m^2 - 4\sigma^2] +$$
$$+ \{[(6 + k)m^2 - 4\sigma^2]^2 - 8\, [2\sigma^4 - (6 + k)\, n^2m^2]\}^{1/2}\}^{1/2},$$
$$\Upsilon = \tfrac{1}{2}\, \{[(6 + k)\, m^2 - 4\sigma^2] + \qquad\qquad (A),$$
$$+ \{[(6 + k)\, m^2 - 4\sigma^2]^2 - 8\, [2\sigma^4 - (6 + k)\, n^2m^2]\}^{1/2}\}^{1/2}.$$

$\sigma^2 = m^2 + n^2$. Determination of the critical force by Eq. (19) is discussed. Finally, Eq. (19) is discussed for thin plates. B. G. Galerkin (Sobr. soch., 1, 2, Izd. AN SSSR, 1952) is mentioned. There are 2 figures and 5 Soviet references.

ASSOCIATION: Voronezhskiy gosudarstvennyy universitet (Voronezh State University)

Card 3/4 3

LEGENYA, I.D. (Voronezh)

Loss of stability of a thick square freely-supported plate. Izv.AN SSSR. Otd.tekh.nauk.Mekh.i mashinostr. no.6:165-168 N-D '62.   (MIRA 15:12)
                      (Elastic plates and shells)

LEGENYA, I. D.

Stability of a thick plate subjected to plastic deformation.
Dokl. AN SSSR 147 no.6:1314-1317 D '62.

(MIRA 16:1)

1. Voronezhskiy gosudarstvennyy universitet. Predstavleno
akademikom A. Yu Ishlinskim.

(Plasticity)   (Deformations(Mechanics))

S/020/63/149/004/007/025
B104/B186

AUTHOR: Legenya, I. D.

TITLE: On the stability of a compressed plate taking account
               of the rotation angle

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 149, no. 4, 1963,
               802 - 805

TEXT: Proceeding from the equations of the stability theory of
V. V. Novozhilov (Osnovy nelineynoy teorii uprugosti - Basis of non-
linear theory of elasticity, 1948), the loss of stability of a thick
freely supported rectangular plate which is uniformly compressed in one
direction is investigated. It is shown that, in the limiting case of a
small plate thickness, the formulas of the theory of plate stability
obtained under the hypothesis of Kirchhoff (S.P. Timoshenko,
Ustoychivost' uprugikh sistem - Stability of elastic systems, 1955) do
not follow from the results obtained here. Only if the influence of the
angle of revolution is neglected can the stability of thin plates

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On the stability of a compressed...   S/020/63/149/004/007/025
                                                        B104/B186

derived under the Kirchhoff hypothesis be deduced from the present
results. This shows that the widely used theory of plates and shells
has to be studied taking account of the influence of the angle of
revolution. There is 1 figure.

PRESENTED: February 21, 1962, by A. Yu. Ishlinskiy, Academician

SUBMITTED: January 18, 1962

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L 14448-65   EPA(s)-2/EWT(m)/EPF(n)-2/EWP(t)/EWP(b)   Pt-10/Pu-4   ASD(f)-2
JD/WW/JG

ACCESSION NR: AP4023361

S/0198/64/010/002/0017/0123

AUTHOR: I.iev, D. D. (Voronezh); Legenya, I. D. (Voronezh)

TITLE: The stability of a plate under small deformations in the general case of nonlinear strain theory   B

SOURCE: Pry*kladna mekhanika, v. 10, no. 2, 1964, 117-123

TOPIC TAGS: strain theory, nonlinear strain theory, plate stability, plate deformation, compressive stress, stress-strain relation

ABSTRACT: The authors discuss the cylindrical buckling of a rectangular plate made of an incompressible material under longitudinal compressi   with a nonlinear stress-strain relationship. It is assumed that the strain potential is a function of the second and third invariants of the stress deviator. Formulas for determining the buckling stresses are derived for the case of one-side buckling of both thick and thin plates simply supported at short edges. An example in which two tests (tension-compression and pure shear) are necessary for determining the constants of the strain potential is analyzed in detail. The stability of constructions made of metastable alloys (for

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ACCESSION NR: AP4023361

which the above-mentioned test results are independent of each other)
can be investigated by taking into account the third invariant of the
stress deviator.   Orig. art. has: 2 figures and 27 formulas.

ASSOCIATION: Voronez'ky*y derzhavny*y universy*tet (Voronezh State
University)

SUBMITTED: 16Sep63   ENCL: 00

SUB CODE: AS   NO REF SOV: 005   OTHER: 000

Card   2/2

LEGENYA, L.D. (Voronezh)

Stability of a thick plate under the action of evenly
distributed tangential stresses. Prikl. mekh. 1 no.9:45-51
'65.   (MIRA 18:10)

1. Voronezhskiy gosudarstvennyy universitet.

LEGENYEI, L.

We should make preparations for autumn instruction. p. 4. REPULES.
Budapest. Vol. 8, No. 15, Sept. 1955

SOURCE: East European Accessions List (EEAL) Library of Congress
          Vol. 5, No. 6, June 1956

INGELMAI, L.

INGELYEJ, L. Modeling as seen by a pilot.   p. 7.

Vol. 8, No. 18, Dec. 1955.
REPULES.
TECHNOLOGY
Budapest, Hungary

So: East European Accession, vol. 5, No. 5, May 1956

LEGENYEI, L.

Notes from Yugoslavia. p. 16.
(Repules, No. 1, Apr. 195?. Budapest, Hungary)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 9, Sept. 1957. Uncl.

LEGENYEI, L.

More attention to the training of beginners.

P. 3 (REPULES)   Budapest, Hungary   Vol. 7, No. 5, Aug. 1957.

SO: Monthly Index of East European Acessions (AEEI) Vol. 6, No. 11 November 1957.

LEGENYEI, L.

"On the eve of the great competition."

p. 6 (Repules) No. 9, Dec. 1957
Budapest, Hungary

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
     April 1958

LEGENYEI, L.

The 1957 glider competitions of western countries.

P. 4.   (REPULES) (Budapest, Hungary) Vol. 11, no. 1, Jan. 1958

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

LEGENYEI, L.

A dangerous take off; the last day of October 1956.

P. 13. (REPULES.) (Budapest, Hungary) Vol. 11, No. 1, Jan. 1958

SO: Monthly Index of East European Accession (EEAI) LC. Vol. 7, No. 5, 1958

BENESOVA, O.; SPACKOVA, M.; ZABRODSKA, A.; LEGEROVA, A.

Comparative studies on methods of determination of the effectiveness
of heparin with special reference to the selection of the suitable
method for the 2nd edition of the Czechoslovak Pharmacopeia. Cesk.
farm. 3 no.6:219-221 Je '54.

1. Z Kontrolniho ustavu farmaceutickeho v Praze.
       (HEPARIN,
          *standard., comparison of technics)

BENESOVA, O., MUDr; SPACKOVA, M.Ing.; ZAHRODSKA, A.; LEGEROVA, A.

New method of determination of afficacy of heparin in vitro. Cas.
lek. cesk. 93 no.46:1274-1277 12 Nov 54.

1. Z Kontrolniho ustavu farmaceutickeho.
    (HEPARIN
        efficacy determ. in vitro, new method)

LEGETI, Gyorgy

In the wake of new technology. Ujit lap 15 no.17:5 10 S '63.

LEGHYDA, A. I., DMITROVSKIY, YE. I. (engineers)

Road Machinery

Set of machines for concrete road paving. Mekh.trud.rab. 6 no. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, August, 1952.   UNCLASSIFIED.

1. LEGEYDA, A. I.; NEMIROVSKIY, YE. I., Engs.

2. USSR 600

4. Road Machinery

7. Machines for building concrete roads, Vest. mash, 32, No. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

LEGEYDA, L.T., assistent (Odessa)
  Intubation of the trachea "blindly" following a guide. Prob.
  chel.-lits. khir. no.1:11-13 '65.
                                                        (MIRA 18:10)

LEGEYDA, N.F., inzh.

Modernization of the K-160 hardening and tempering machine unit.
Metalloved. i term. obr. met. no.3:60 Mr '61.   (MIRA 14:6)

1. Ukrainskiy nauchno-issledovate'skiy institut metallov.
                    (Furnaces, Heat-treating)

LEGEYDA, N.F., inzh.

Modernization of the K-160 heat-treating furnace. Mashinostroenie
no.2:67-68 Mr-Ap '62.   (MIRA 15:4)

1. 8-y gospodshipnikovyy zavod, g. Khar'kov.
                        (Furnaces, Heat-treating)

S/276/63/000/001/006/028
A006/A101

AUTHORS: Kazarnovskiy, D. S., Legeyda, N. F., Tseluyko, V. I.

TITLE: Strengthening heat treatment of low-carbon steel, containing arsenic

PERIODICAL: Referativnyy zhurnal, Tekhnologiya mashinostroyeniya, no. 1, 1963,
             40, abstract 1B207 ("Sb. tr. Ukr. n.-i. in-t metallov" 1962, no. 8,
             318 - 326)

TEXT: The investigation was made on rolled   3   (St. 3kp) steel sections.
The steel was melted in 350-ton tilting open-hearth furnaces on phosphorous iron
of the following composition: (in%) C 0.16 - 0.17; S 0.028 - 0.058; P 0.021 -
- 0.031; Mn 0.44 - 0.50; Si 0 - 0.15; As 0.06 - 0.13. The mechanical properties
were tested; the toughness of the steel was determined prior and after aging; the
dependence of toughness upon test temperature and the condition of the steel was
also determined (after rolling, after rolling and aging, heat treatment, and heat
treatment and aging). The fatigue strength of the steel in the initial and ther-
mally improved state was also determined. The authors studied the effect of weld-
ing upon the properties of thermally strengthened steel, containing arsenic; they

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Strengthening heat treatment of...

S/276/63/000/001/006/028
A006/A101

determined the toughness of specimens prior and after electric welding. As a result of the investigation performed it was established that rimming steel (St.3) and killed steel (St.3sp) containing up to 0.15% As, were considerably improved after quenching from 910° C, ductility and toughness being satisfactory. Welding does not impair the strength characteristics of the steel obtained by quenching. There are 5 figures and 6 references.

T. Kislyakova

[Abstracter's note: Complete translation]

Card 2/2

NOSOV, V. S., inzh.; LEGEYDA, N. F., inzh.; IMSHENETSKIY, V. I.,
inzh.[deceased]

Hardening by heat treatment of low-carbon steels. Met. i
gornorud. prom. no.1:25-30   Ja-F '63.   (MIRA 16:4)

1. Ukrainskiy institut metallov (for Nosov, Legeyda). 2. Kommu-
narskiy metallurgicheskiy zavod (for Imshenetskiy).

(Steel—Hardening)

NOSOV, V.S.; LEGEYDA, N.F.; TIMOFEYEV, D.I.

Sheet hardening in hardening presses. Metal gorn met. p. no. rod 10-33 N-D '63.   (MIRA 18:1)

LEGEYDA, N.F., inzh.

Selecting the optima conditions of heat hardening of low-carbon
rimmed steel. Stal' 23 no.10:933-935 O '63.   (MIRA 16:11)

LEGEYDA, N.F.; TSELUYKO, V.I.; NOSOV, V.S.

Mechanical properties of St 3kp steel depending on conditions
of heat treatment. Metalloved. i term. obr. met. no.4;
38-40 Ap '64.   (MIRA 17:0)

1. Ukrainskiy neuchno-issledovatel'skiy institut metallov.

LEGEYDA, N.F.; YUNASH, V.I.; VOL'TER, Ye.V.

Effect of the temperature of hardening on the properties
of St. 3kp brand steel. Met. i gornorud. prom. no.1:43-44
Ja-F '64.   (MIRA 17:10)

LEGEYDA, N.F.; TYURIN, N.F.; NOSOV, V.S.

Investigatinf the mechanical properties of thick St. 3kp steel sheet made from various parts in height of an ingot, before and after heat treatment. Sbcr. trud. UNIIM no.9:394-404 '64

(MIRA 18:1)

GOLUBOV, M.M.; LEGEYDA, N.F.; ZAKHAROV, A.Ye.; FADEYEV, A.Yu.; PAN'KIN, N.I.;
     SAFRYGIN, Kh.M.; NOSOV, V.S.; VOL'TER, Ye.V.; SHUL'GA, Ye.A.;
     MIROSHNICHENKO, S.I.

Effect of the rate of plate cooling on the quality of the metal
after rolling. Met. i gornorud. prom. no.1:33-36 Ja-F '65.
                                                (MIRA 18:3)

L 9643-66   EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b)   MJW/JD

ACC NR: AP5027704   SOURCE CODE: UR/0129/65/000/011/0020/0021

AUTHOR: Zakharov, A. Ye.; Legeyda, N. F.; Nosov, V. S.; Vol'ter, Ye. V.

ORG: none

TITLE: Heat treatment of low-carbon and low-alloy steel plate

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 11, 1965, 20-21

TOPIC TAGS: metal heat treatment, tempering, cooling, ferritic steel, pearlite steel

ABSTRACT: The Ukrainian Scientific Research Institute of Metals in collaboration
with the TsNIIChERMET and the Kommunar Metallurgical Plant developed a new industrial
process of the heat treatment (quenching and tempering) of St. 3I steel plate: quench-
ing from 890-910°C and water cooling in the press, followed by tempering at 500°C. At
the Kommunar Plant the thermal hardening is carried out in continuous roller hearth
furnaces. Plate 4-50 mm thick and up to 12 m long can be cooled in the press. The
squeeze exerted by the press is 130 tons; the water-spray pressure is 2-3 atm. The
microstructure of the plate is initially (after rolling) ferritic with a small
amount of pearlite; following thermal hardening this microstructure is pearlitic-
ferritic (the amount of pearlite increases). Studies of the mechanical properties of
St. 3ps steel before and after this heat treatment revealed a marked increase in the
impact strength of thermally hardened steel (3.9-7.4 kg-m/cm^2) compared with the im-

Card   1/2   UDC: 669.15-194:621.785.74

L 9643-66

ACC NR: AP5027704

pact strength of the nonhardened steel (1-1.7 $kg\text{-}m/cm^2$) at temperatures as low as -40°C. In both cases the threshold of cold brittleness is the same, -25 to -30°C. Thermal hardening enhances the fatigue limit from 6 to 32% and reduces susceptibility to stress concentration. This technique of heat treatment was experimentally tested not only in furnaces but also in rolling mills on employing a special installation for utilizing the heat of rolling in order to increase the mechanical properties of the plate. In addition, the effect of accelerated water cooling was also investigated, for the steels 14KhGS, SKhL-4, 09G2, 4S, SK, M16S, 3M, 20K (plate thickness 10-24 mm) Findings: thermal hardening during rolling increases tensile and yield strength by an average of 2-4 kg per mm^2 and impact strength, by 0.5-1.5 $kg\text{-}m/cm^2$, while at the same time reducing relative elongation by ~2%, i. e. the increase in mechanical pro- perties is considerable. As the thickness of the steel plate increases, the effect produced by water cooling decreases, and in the presence of 20-mm thickness this effect no longer is active. Orig. art. has: 1 figure.

SUB CODE: 11, 13/ SUBM DATE: none/ ORIG REF: 000/ OTH REF: 000

Card 2/2

L 13051-66   EWT(m)/EWA(d)/EWP(t)/EWP(z)/EWP(b)   IJP(c)   JD

ACC NR: AP5027912   SOURCE CODE: UR/0133/65/000/011/1036/1039

AUTHOR: Kazarnovskiy, D. S. (Doctor of technical sciences); Dryapik, Ye. P. (Engineer); Legeyda, N. F. (Engineer); Zakharov, A. Ye. (Engineer); Balon, V. I. (Engineer); Vol'ter, Ye. V. (Engineer); Nosov, V. S. (Engineer); Konstantinova, T. A. (Engineer); Sukhomlina, A. P. (Engineer)

ORG: Ukrainskiy n.-i. Institute of Metals (Ukrainskiy n.-i. institut metallov); Kommunarskiy Metallurgical Plant (Kommunarskiy metallurgicheskiy zavod)

TITLE: Strengthening of low carbon semikilled St. 3ps steel by heat treatment

SOURCE: Stal', no. 11, 1965, 1036-1039

TOPIC TAGS: carbon steel, low carbon steel, heat treating furnace

ABSTRACT: A heat treatment was developed for St. 3ps steel plates of 12 and 25 mm thickness by heating in a furnace to the temperature range 890-920°C and water cooling on a quench press. This treatment resulted in an average strengthening of 20% and a satisfactory plasticity level. Three separate heats of steel were heat treated. The compositions ranged as follows: C--0.16-0.19%; Mn--0.46-0.52%; Si--0.08-0.12%; S--0.036-0.042%; Ps--0.012-0.034% and Cu--0.050-0.058%. The details of the process were described. The steel plates were heated in a roller type furnace to temperature for a holding time of 1.5 min/mm. Cooling was done in a quench press with a water flow

UDC: 621.78

Card 1/2

L 13051-66

ACC NR: AP5027912   /

rate of 1700 m^3/hr. After quenching, some warpage could be noted, particularly in thicknesses up to 20 mm. Mechanical properties of the heat treated plate in flat and round specimens were determined. Yield strength, ultimate strength, % elongation, % reduction in area and impact resistance were tabulated for heat I (12 mm thick), heat II (12 and 25 mm thick) and heat III (25 mm thick). Frequency curves were plotted for the mechanical properties of the heat treated plate (frequency of occurrence as a function of strength, ductility and impact resistance) and average values were given for these properties. The effect of tempering after quenching was also noted. In general, the strength decreased slightly and the ductility increased. Tempering had little effect on impact resistance. Microstructures showed that the structures after quenching were predominantly pearlitic-ferritic, with needle-like ferrite distributed along grain boundaries for the 12 mm thick plates while in the 25 mm thick plates there was smaller grained, needle-like ferrite. The highest strengths and lowest ductility were obtained in the 12 mm plate. However, the mechanical properties obtained never fell below the following levels for the heat treated condition: yield stress-- 30 kg/mm^2, ultimate strength--44 kg/mm^2, % elongation--16, and impact strength (at -40°C)--3 kgm/cm^2. It was recommended that low carbon steel plate, strengthened by the above treatment, be used in place of low alloyed steel. (To be effective the optimum carbon content for heat treatment should be 0.12-0.18%. Orig. art. has: 3 figures, 2 tables.

SUB CODE: 11/   SUBM DATE: 00/ .   ORIG REF: 004/   OTH REF: 000

Card 2/2

L 24799-66   EWT(m)/EWP(w)/EWA(d)/EWP(v)/T/EWP(k)/EWP(t)   IJP(c)   JD/HM

ACC NR: AP6011533   SOURCE CODE: UR/0135/66/000/004/0001/0004

AUTHOR: Legeyda, N. F. (Engineer); Savchenkov, V. A. (Candidate of technical sciences);
Sotnik, I. S. (Engineer)

ORG: Ukrainian Scientific-Research Institute of Metals (Ukrainskiy nauchno-
issledovatel'skiy institut metallov)

TITLE: Weldability of quench-hardened St. 3ps steel

SOURCE: Svarochnoye proizvodstvo, no. 4, 1966, 1-4

TOPIC TAGS: weldability, metal hardening, metal welding, impact strength, steel/
St. 3ps steel

ABSTRACT: Quench hardening of St. 3ps steel from the temperature range 890-910C in-
creases its strength by at least 30%, lowers the cold brittleness threshold to -60C,
raises the amount of pseudoeutectoid in the steel, and markedly reduces the
grain size. After rolling and hardening, St. 3ps steel was found to have good welda-
bility. Hardening considerably increases notch toughness in the weld-adjacent zone
at low temperatures, lowers the nil ductility transition temperature (NDT), widens
the range of efficient welding conditions, and lowers the sensitivity of the steel to
arc burns. St. 3ps welded after hardening   is resistant to the development of
cracks in the weld-adjacent zone.   [NT]

SUB CODE: 11/   SUBM DATE: none/
Card 1/1

FEDCHUN, M.S.; LEGEYDA, R.D.

Photographic observations of an artificial earth satellite at the
Main Astronomical Observatory of the Academy of Sciences of the
Ukrainian S.S.R. Izv.Glav.astron.obser.AN URSR 3 no.2:151-153
'61.   (MIRA 14:4)
            (Artificial satellites—Tracking)

FEDCHUN, M.S.; LEGEYDA, R.D.

Photographic observations of artificial earth satellites at the Main
Astronomical Observatory of the Academy of Sciences of the Ukrainian
S.S.R. Izv. Glav. astron. obser, AN URSR 3 no. 2:151-153 '61.
(MIRA 14:5)
(Artificial satellites—Tracking)

PETROVA, Z.I.; LEGEYDO, V.A.

    Geochemistry of tin in the magmatic process. Geokhimiia no...
    482-489 Ap '65.

    1. Institut geokhimii Sibirskogo otdeleniya AN SSSR, Irkutsk.

SZENTIVANYI, A.;FILIPP, G.;LEGEZA, G.

Investigations on tobacco sensitivity; tobacco sensitivity as occupa-
tional disease. Acta med. hung. 3 no.2:175-184 1952. (CLML 23:4)

1. Of the First Department of Medicine of Debrecen University.

LEGEZA, G.V.

821. RESULTS OF OPERATIVE TREATMENT OF EXTENSIVE AND COMPLETE
SYMBLEPHARON IN THE PRESENCE OF THE EYEBALL (Russian text) -
Legeza G. V. - ZH.OFTALM. 1956, 4 (225-229)

Results are reported of operative treatment of symblepharon in the presence of
the eyeball in 100 patients (117 eyes), using the technique developed by Puchkovs-
kaya. Only in 18 of the 100 patients was there extensive symblepharon of one eye-
lid, while in the rest there was complete adhesion of one lid or extensive and com-
plete adhesion of both lids. Symblepharon was observed resulting from chemical
burns in 88 eyes, from thermal burns in 25, and from diseases in 4 eyes. Of 117
eyes subjected to operation, complete success as represented by abolition of sym-
blepharon, restoration of the arches and complete closing of the lids was achieved
in 112 eyes. Operative treatment of extensive and complete symblepharon in the
presence of the eyeball is of great importance as preparation for optic surgery.
In cases where an optic effect is impossible the wearing of a thin-walled prosthesis
is recommended.   (S)

LEGEZA, G.V.

Extraction of glass and stone splinters from the corner of the anterior
chamber. Oft. zhur. 13 no.6:360-362 '58.   (MIRA 12:1)

1. Iz ukrainskogo nauchno-issl. eksperimental'nogo instituta glasnykh
bolezney i tkanevoy terapii imeni akademika V.P. Filatova (dir. - prof.
N.A. Puchkovskaya).
          (EYE--FOREIGN BODIES)

LEGEZA, G.V.

Results of surgery on superficial forms of cancer of the eyelids.
Oft.zhur. 14 no.5:305-310 '59.   (MIRA 12:10)

1. Iz Ukrainskogo nauchno-issledovatel'skogo eksperimental'nogo
instituta glaznykh bolezney i tkanevoy terapii im. akademika
V.P.Filatova (direktor - prof.N.A.Puchkovskaya).
                    (EYELIDS--CANCER)

LEGEZA, G. V., kand. med. nauk

Use of a stent in free skin transplantation on the eyelids. Oft. zhur. no.2:110-112 '62. (MIRA 15:4)

1. Iz Ukrainskogo nauchno-issledovatel'skogo eksperimental'nogo instituta glaznykh bolezney i tkanevoy terapii im. akad. V. P. Filatova (direktor - chlen-korrespondent AMN SSSR prof. N. A. Puchkovskaya)

(SKIN—TRANSPLANTATION)   (EYELIDS—SURGERY)

LEGEZA, G.V.

Examination of the moisture in a conjunctival sac produced by surgery. Uch.zap. UEIGB 5: 156-161 '62   (MIRA 16:11)

LEGEZA, G. V., kand. med. nauk

Knife for cutting the mucosa of the lips. Oft. zhur. 17 no.4:
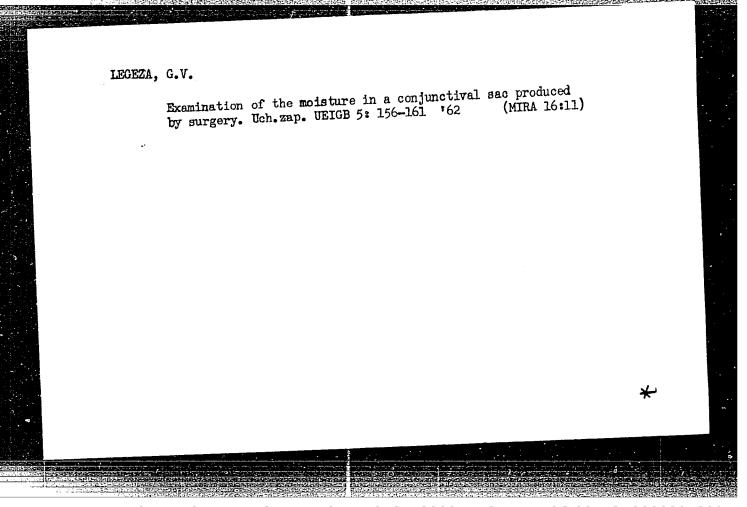242-243 '62.   (MIRA 15:7)

1. Iz Ukrainskogo nauchno-issledovatel'skogo eksperimental'nogo
instituta glaznykh bolezney i tkanevoy terapii imeni akademika
V. P. Filatova (direktor - chlen-korrespondent AMN SSSR prof.
N. A. Puchkovskaya).

        (SURGICAL INSTRUMENTS AND APPARATUS)
        (OPHTHALMOLOGY—EQUIPMENT AND SUPPLIES)

LEGEZA, I.

SZENTIVANYI, A.; FILIPP, G.; LEGEZA, I.

Tobacco allergy investigation; tobacco allergy as an industrial
disease. Orv. hetil., Budap. 92 no. 44:1414-1419 4 Nov. 1951.

(CIML 21:3)

1. Doctors. 2. First Internal Clinic (Director -- Prof.-Dr.
Bela Fornet), Debrecen Medical University.

MUSIYENKO, V.P.; POLATAYKO, R.I.; SKARCHENKO, V.K.; FROLOVA, V.S.;
GALICH, P.N.; Prinimali uchastiye: Legeza, L.F.; Kubyshkina, G.A.

Conversion of n-hexane on chromium-magnesium oxide catalysts.
Ukr. khim. zhur. 30 no.9:915-918 '64.   (MIRA 17:10)

1. Institut vysokomolekulyarnykh soyedineniy AN UkrSSR.

LINDBERG, L. U. LECEZA, M. I.

Gambusia

Systematic aspects of Gambusia, acclaimated to the Soviet Union, Zool. zhur. 31 No. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, July 1952, UNCL.

LEGEZA, M.I.

Ecology and distribution of cottoid fishes in the waters of southern
Sakhalin and southern Kurile Islands. Trudy probl.i tem.sov. no.6:
122-131 '56.   (MLRA 9:11)

1. Zoologicheskiy institut AN SSSR.
        (Sakhalin--Sculpin) (Kurile Islands--Sculpin)

/ ⌐ C, I ⌐ A, H, I

LINDBERG, G.U.; LEGEZA, M.I.

On the two forms of the spiny dogfish (Squalus acanthias L.[with
English summary in insert]. Zool.zhur.35 no.11:1685-1688 D '56.
                                                        (MLRA 10:1)

1. Zoologicheskiy institut Akademii nauk SSSR.
        (Dogfish)

LEGEZA, M.I.

Some data on the distribution of flatfishes in the northern
Kurile Islands region. Trudy Inst.okean. 36:275-281 '59.
(MIRA 15:4)

1. Zoologicheskiy institut AN SSSR.
                    (Kurile Islands region--Flatfishes)

2.

LINDBERG, G.U.; LEGEZA, M.I.; PAVLOVSKIY, Ye.N., akad., glavnyy red.;
BYKHOVSKIY, B.Ye., red.; VINOGRADOV, B.S. [deceased], red.;
STRELKOV, A.A., red.; SHTAKEL'BERG, A.A., red.; ANDRIYASHEV,
A.P., red.; SMIRNOVA, A.V., tekhn.red.

[Fishes of the Sea of Japan and contiguous areas of the
Sea of Okhotsk and the Yellow Sea.Pt.1: Amphioxi, Petromy-
zones, Myxini, Elasmobranchii, Holocephali] Ryby IAponskogo
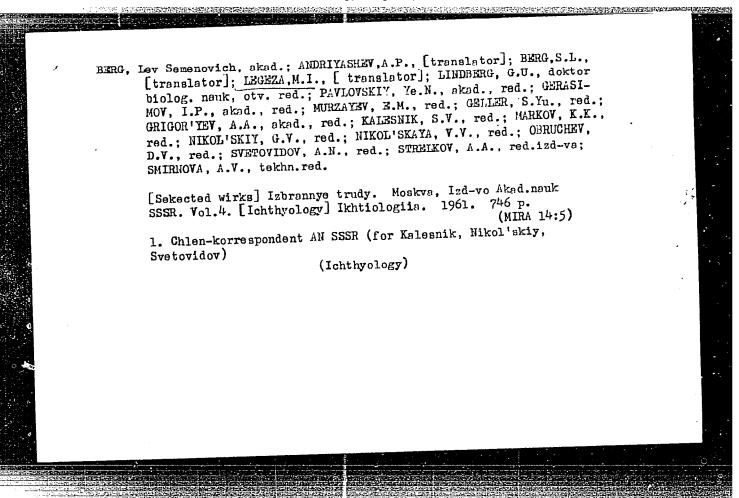moria i sopredel'nykh chastei Okhotskogo i Zheltogo morei.
Moskva, Izd-vo Akad.nauk SSSR. Part 1. Amphioxi, Petromyzones,
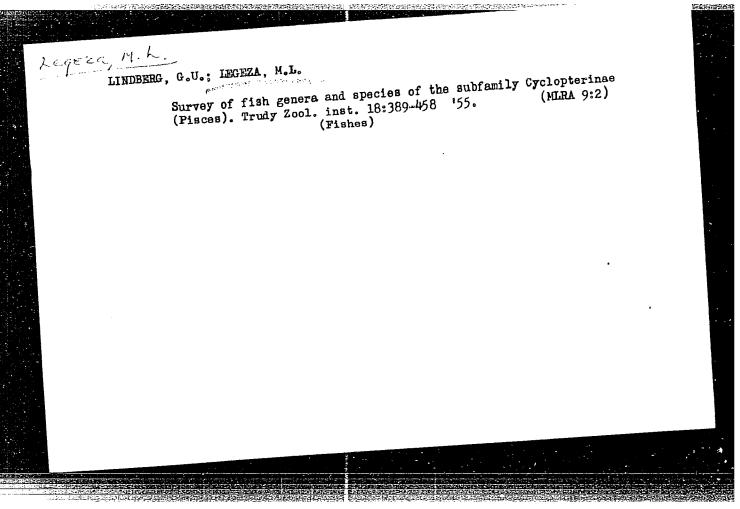Myxini, Elasmobranchii,.Holocephali. 1959.207p.(Opredeliteli
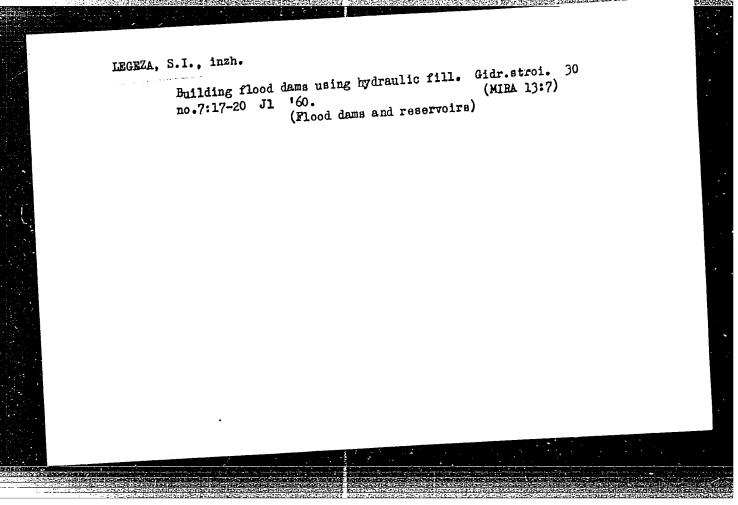po faune SSSR, no.68).   (MIRA 12:12)

1. Direktor Zoologicheskogo Instituta AN SSSR (for Pavlovskiy)
          (Japan, Sea of--Fishes)

BERG, Lev Semenovich, akad.; ANDRIYASHEV,A.P., [translator]; BERG,S.L., [translator]; LEGEZA,M.I., [translator]; LINDBERG, G.U., doktor biolog. nauk, otv. red.; PAVLOVSKIY, Ye.N., akad., red.; GERASI-MOV, I.P., akad., red.; MURZAYEV, E.M., red.; GELLER, S.Yu., red.; GRIGOR'YEV, A.A., akad., red.; KALESNIK, S.V., red.; MARKOV, K.K., red.; NIKOL'SKIY, G.V., red.; NIKOL'SKAYA, V.V., red.; OBRUCHEV, D.V., red.; SVETOVIDOV, A.N., red.; STRELKOV, A.A., red.izd-va; SMIRNOVA, A.V., tekhn.red.

[Sekected wirks] Izbrannye trudy. Moskva, Izd-vo Akad.nauk SSSR. Vol.4. [Ichthyology] Ikhtiologiia. 1961. 746 p.
(MIRA 14:5)

1. Chlen-korrespondent AN SSSR (for Kalesnik, Nikol'skiy, Svetovidov)
                    (Ichthyology)

Legeza, M.L.

LINDBERG, G.U.; LEGEZA, M.L.

Survey of fish genera and species of the subfamily Cyclopterinae
(Pisces). Trudy Zool. inst. 18:389-458 '55.   (MLRA 9:2)
(Fishes)

LEGEZA, S.I., inzh.

Building flood dams using hydraulic fill. Gidr.stroi. 30
no.7:17-20 Jl '60.
           (MIRA 13:7)
        (Flood dams and reservoirs)

LEGEZA, V. D.

Legeza, V. D. -- "Investigation of the Work of the Loading Device of a
    Cutting and Loading Machine with Cantilever Scrapers under the Conditions
    of the Gently-Sloping Strata of the Chelyabinsk Basin." Min Higher Edu-
    cation USSR, Sverdlovsk Mining Inst imeni V. V. Vakhrushev, Sverdlovsk,
    1955 (Dissertation for the Degree of Candidate in Technical Sciences)

    SO: Knizhnaya Letopis', No. 23, Moscow, Jun 55, pp 87-104

LEGEZA, V.D., kand.tekhn.nauk; TURUTA, N.U., dots.; FILATOV, L.V., inzh.

Effect of water consumption, depth, and angle of borehole inclination on the depth of boring by means of an air sinker. Izv.vys.ucheb.zav.; gor.zhur. no.3:81-83 '59.
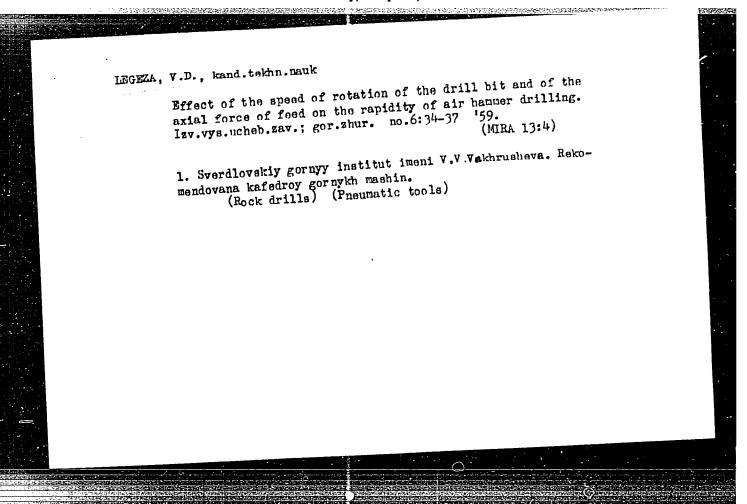(MIRA 13:4)

1. Sverdlovskiy gornyy institut imeni V.V.Vakhrusheva, Rokomendovana kafedroy gornykh mashin i rudnichnogo transporta.
(Boring)

TURUTA, N.U., dotsent; LEGEZA, V.D., kand.tekhn.nauk

     Comparative evaluation of boring machinery equipped with air
     sinkers. Izv.vys.ucheb.zav.; gor.zhur. no.4:57-64 '59.
                                    (MIRA 13:5)

     1. Sverdlovskiy gornyy institut imeni V.V.Vakhrusheva.
     Rekomendovana kafedroy gornykh mashin i rudnichnogo.transporta.
          (Boring machinery)

LEGEZA, V.D., kand.tekhn.nauk

Effect of the speed of rotation of the drill bit and of the axial force of feed on the rapidity of air hammer drilling. Izv.vys.ucheb.zav.; gor.zhur. no.6:34-37 '59.
(MIRA 13:4)

1. Sverdlovskiy gornyy institut imeni V.V.Vakhrusheva. Reko-mendovana kafedroy gornykh mashin.
(Rock drills) (Pneumatic tools)

TURUTA, N.U., dotsent; LEGEZA, V.D., kand.tekhn.nauk; FILATOV, L.V., inzh.

Rate of boring with pneumatic hammers and expenditure of air
as functions of compressed air pressure. Izv. vys. ucheb. zav.;
gor. zhur. no.11:51-53 1959.   (MIRA 14:5)

1. Sverdlovskiy gornyy institut imeni V. V. Vakhrusheva.
Rekomendovana kafedroy gornykh mashin i rudnichnogo transporta.
          (Rock drills—Pneumatic driving)

LEGEZA, V.D.,kand.tekhn.nauk; BOROKHOV, P. Kh.

Adoption of sinker drills in the mines of the Nizhniy Tagil metallurgical combine. Gor. zhur. no.4:30-32 Ap '60. (MIRA 14:6)

1. Sverdlobskiy gornyy institut (for Legeza). 2. Nachal'nik burovykh rabot shakhty Magnetitovaya, Vysokogorskiy rudnik (for Borokhov).
(Nizhniy Tagil region—Rock drills)

LEGEZA, V. D., kand. tekhn. nauk

Effect of the pressure of compressed air and the hardness of rocks on the rate of boring with sinker air drills. Izv. vys. ucheb. zav.; gor. zhur. no.9:104-105 '61.

(MIRA 15:10)

1. Sverdlovskiy gornyy institut imeni V. V. Vakhrusheva. Rekomendovana kafedroy gornykh mashin i rudnichnogo transporta.

(Boring)

LEGEZA, V.D., kand.tekhn.nauk

Comparative evaluation of air-percussion drilling in open pits.
Izv. vys. uch. zav.; gor. zhur. 5 no.6:85-88 '62. (MIRA 15:9)

1. Sverdlovskiy gornyy institut imeni V.V.Vakhrusheva.
Rekomendovana kafedroy gornykh mashin i rudnichnogo transporta.
                (Boring machinery—Pneumatic driving)

YEFREMOV, I.F., kand. tekhn. nauk, dots.; LEGEZA, V.D., kand.
tekhn. nauk, otv. red.

[Boring machinery; manual for laboratory work in the course
"Mining machinery" for students of the Sverdlovsk Mining
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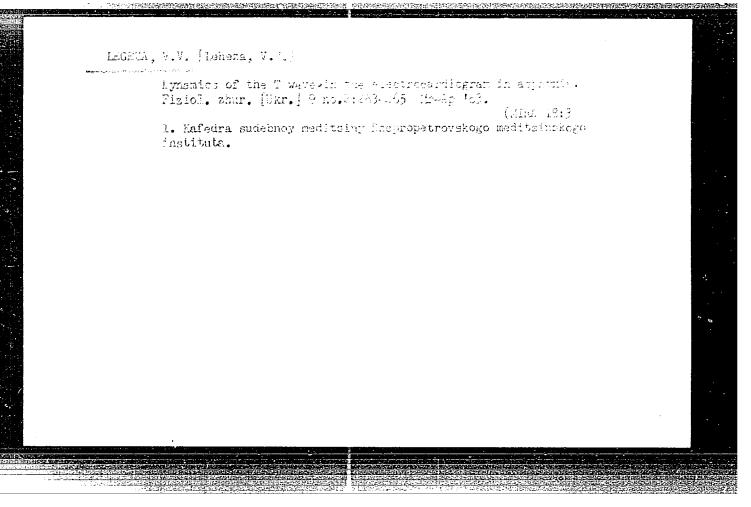Source: Knizhnaya letopis' No. 20   1955   Moscow .

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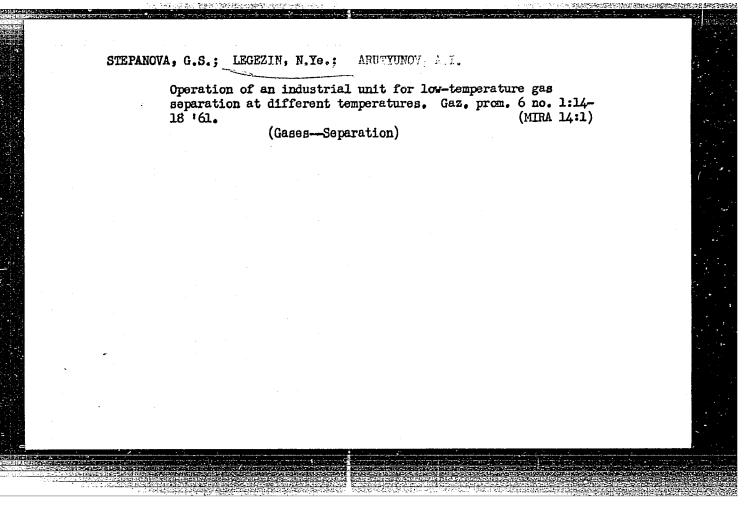
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Bystrodeystvuyushchaya vychislitel'naya mashina M-2 (High-speed
    Computer M-2) Moscow, Gostekhizdat, 1957. 228 p. 10,000 copies
    printed.

Ed. (title page): Bruk, Isaak Semenovich, Corresponding Member,
    USSR Academy of Sciences; Ed. (inside book): Bezborodov, Yu. M.;
    Tech. Ed.: Gavrilov, S.S.

PURPOSE: The book is written for engineers and students of vuzes,
    specializing in computer techniques, and for specialists interested
    in computer applications.

COVERAGE: The book describes the M-2, a small-dimensioned, universal,
    high-speed digital computer developed by the Laboratory of Control
    Machines and Systems of the Academy of Sciences, USSR. A detailed
    description is given of the basic computer units: the arithmetic

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unit, internal memory devices, control devices and output devices. This description is supplemented with an exposition of the guiding principles of computer design, the binary system, coding and programming, and the design of basic components of the system. This makes the book accessible to readers who have no special training in electronic computers. The basic characteristics of the computer are as follows: the calculation system is binary; the code presentation is with a floating and fixed binary point; the number of binary digits is 34; the computation accuracy,with a floating binary point, is about eight decimal bits, and with a fixed binary point, about ten decimal bits (computations with doubled accuracy are also possible); the range of numbers in operations with a floating binary point is from 2^{31} to 2^{-32}; the coding system is a three-address code; operations performed are: addition, subtraction, multiplication, division, congruence with modulus, algebraic congruence, logical (signed) multiplication, sign inversion, transfer of numbers, and auxiliary operations (30 in all); the average speed of operation is

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